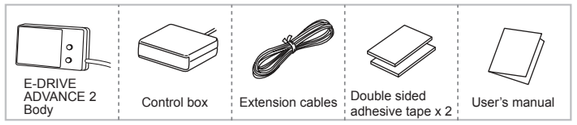
E-DRIVE ADVANCE 2

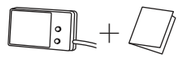
INSTRUCTION MANUAL

CONTENTS

(the following pictures may be different from reality and they are only for reference)



● In transferring the product to others, please always attach with the user's manual.



CHARACTERISTICS

- The circuit board with new design of input and output signal loop can reduce noise.
- Re-new the internal program corresponding with new vehicle launched after 2010 completely.
- Logical operation upgraded for more stable signal output and short the impulse time.
- The original throttle setting (Nor mode) will be effective automatically when vehicle is in reverse.
- Three modes: 9 steps Power mode, 7 steps Eco-mode and normal mode. Change mode anytime as your desire.
- Setting memorized function: After engine turned off, setting will be memorized automatically, driver doesn't have to re-set when engine re-started

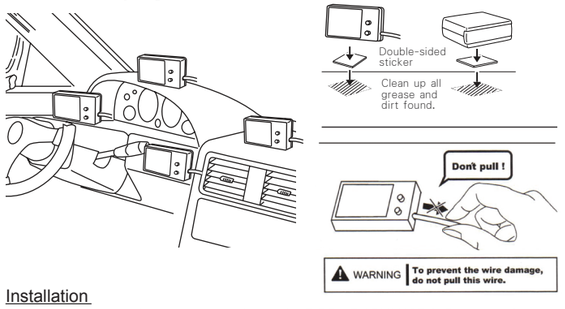
IMPORTANT NOTICE

Please read all the instruction to make installation run smoothly

- **Must run the initial setup after first installation, please make sure the engine is off and gear is in "P" or "N" position while running setup.**
- **The defect or damage is arising from misuse, mishandling, accidental lost, abuse, accident, negligence and damage caused directly or indirectly by Customer, including but not limited to improper testing, installation, alteration or modification of any kind, or spillage of food or liquid, or build up of dirt or dust, or mains supply problem, thunderstorm activities, or infestation by insects or vermin, or exposure to abnormally corrosive conditions, or operation with extreme heat or humidity.**
- **Never work in a poor air ventilation space.**
  It may cause carbon monoxide poisoned, explosion and accident.
- **Please unscrew the negative pole connection of the battery before installation to prevent the part damaged or flame caused by short circuit.**
- **Don't scratch the coat of cables.**
  Cable with broken coat might cause flame because of bad connection or short circuit.
- **Organize the wire after installation.**
  If wire falls scattered while driving may cause danger event.
- **Never operate while driving.**
  Concentrate your mind while driving will keep you safe.
- **Professional knowledge is required, please consign Shadow Edrive to technician nearest you for help if any question about installing or wiring.**
- **For DC12V vehicle only.**
- **Make sure the wire is connected well.**
  If wire welded is necessary, please seal the welded joint with insulating tape and make sure there is no metal core of wire exposed.
- **Do NOT disassemble the product, or modify any of the components as it will void your warranty.**
- **Please don't install this product in humidity environment with high temperature because of failure running.**
- **Fragile! Hand with care. Hold the body few seconds after double-side tape pasted and make sure the body is fixed firmly.**

INSTALLATION INSTRUCTION

Products assembly diagram


Double-sided sticker
Clean up all grease and dirt found.
Don't pull !
WARNING
To prevent the wire damage, do not pull this wire.

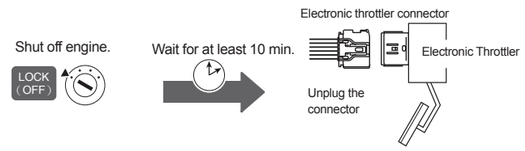
Installation

Choose the position where you want to install the E-DRIVE ADVANCE 2. Please confirm that the driver's sight will not be hindered especially when installing multiple sets of products at the same time. Pull the electric wires along the route of shortest distance to the planned installation position of the E-DRIVE ADVANCE 2.

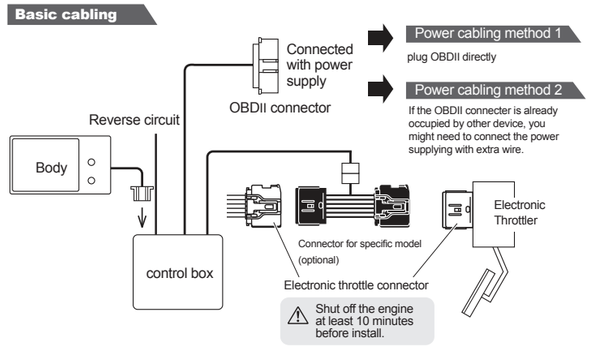
HARNESS

Preparation of installation

Shut off the engine at least 10 minutes.
Practically follow the above started method to prevent engine check light lighted up.
(Pleaser refer to the troubleshooting of engine check light lighted up)

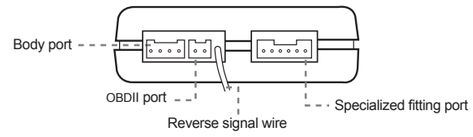


Basic cabling


Connected with power supply
OBDII connector
Power cabling method 1
plug OBDII directly
Power cabling method 2
If the OBDII connecter is already occupied by other device, you might need to connect the power supplying with extra wire.
Reverse circuit
Body
control box
Connector for specific model (optional)
Electronic throttle connector
Electronic Throttler
Shut off the engine at least 10 minutes before install.

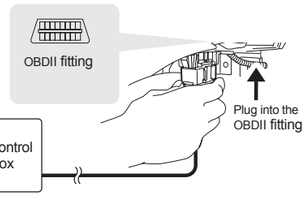
Notice: please tie up wires, otherwise it might cause danger as wire falling while driving.

Port Diagram



Power cabling method 1

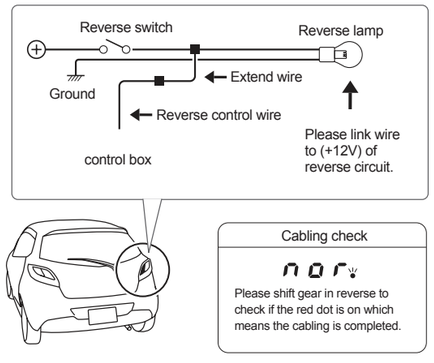
Turn off the battery switch and plug the OBDII fitting directly.



⚠ Caution
pull the wire instead of fitting for release the harness

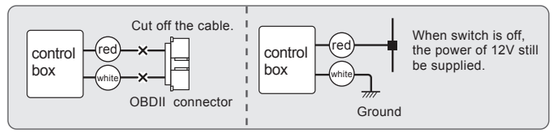
Reverse circuit cabling

It's optional to equip with the reverse circuit cabling which is for throttle back to factory default while driving in reverse.


Reverse switch
Reverse lamp
Ground
Extend wire
Reverse control wire
control box
Please link wire to (+12V) of reverse circuit.
Cabling check
nor
Please shift gear in reverse to check if the red dot is on which means the cabling is completed.

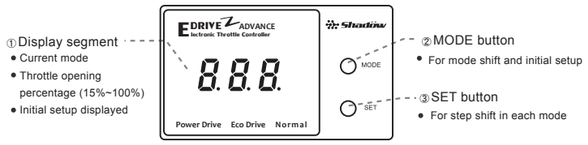
Power cabling method 2

Please cut both red & white wire of the OBD harness, red wire is for positive current input, white is negative output.



SETUP

The component of E-drive description

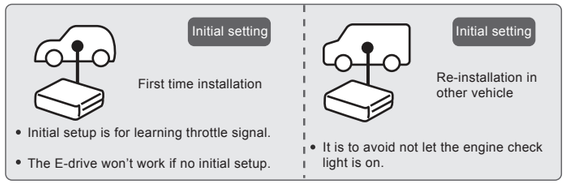


Product shut-down time

- The monitor will be lighted off after engine turned off 10 seconds to 5 minutes because its power supply is synchronous with ECU.
- If any throttle opening percentage shown on monitor is normal while the E-drive is shutting off.

Initial setup (Throttle opening setup)

- Must run the initial setup at first.



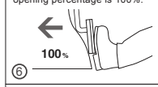
- Initial setup is for learning throttle signal.
- The E-drive won't work if no initial setup.
- It is to avoid not let the engine check light is on.
- NO more setup needed after initial setup.

Initial setup instruction

The preparation of initial setup.
1. Must double check all the wire and fitting is connected well.
2. Turn the switch on, shift the gear to "P" or "N" position while the engine is off.

Step	Code (shown on monitor)
Turn the battery switch on. (The engine must be off) ①	nor Display nor. Only under nor mode, the setting is possible.
Hold "Mode" button till the code becomes "0" ②	- - - ⇩ 7,6…1,0 The figure starts to count back from 7,6,5…1,0 after displaying ---
Release the "Mode" button to start the mode shift. ③	(ex) L 1.6 flashing Display throttle volt (ex. L 1.6)
Do not step on pedal so the E-drive can learn the throttle opening percentage is 0% ④	(ex) L 1.6 flashing Display throttle volt (ex. L 1.6)
Press SET key ⑤ Press the "Set" button to confirm the 0% throttle learning.	SEt Display SET

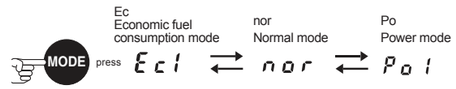
The above figures are for example only; various cars may show different voltage.

Step	Code (shown on monitor)
Fully stepping on the pedal so the E-drive can learn the throttle opening percentage is 100%. ⑥ 	(ex) H4.6 flashing Display throttle volt (ex. H 4.6)
Keep fully stepping on pedal and press the "Set" button ⑦	SEt Display SEt ⇩ 100 Display 100
Keep fully stepping on pedal and hold the button till the code turned into "100". Release the pedal to finish the setting. ⑧	100 Display 100 ⇩ nor Display nor
Setting completed! Must run the initial setup as above instruction step if re-install the E-drive to other vehicle.	
⚠ If code is turned into Err in installation step ⑦	If code is Err, the procedure will jump to step ③ automatically, please re-set the throttle opening percentage.
Please re-run the initial setup if the code shown on monitor.	
When press the "Mode" button to run the mode or step shift.	Err "Err" displayed ⇩ nor "Nor" remained

Mode shift

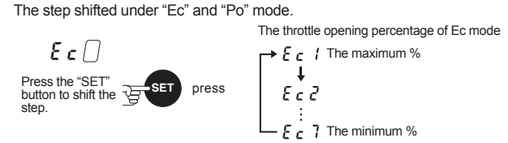
3 Modes: "Nor": factory default ,"Ec": Economy , "Po": Power
Turn the battery switch on then start the engine.

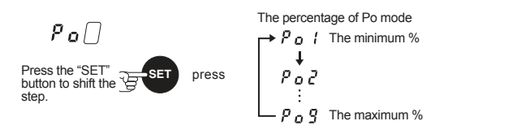
Press "Mode" button to shift the mode.



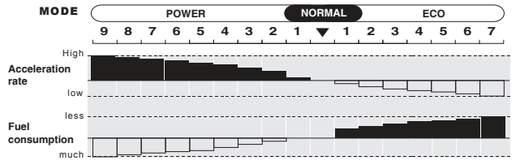
Step shift

The step shifted under "Ec" and "Po" mode.





Acceleration and fuel consumption of each step



⚠ For your safety, the throttle runs with Power mode is very sensitive, please notice the way to step on pedal if driver changed or driving in reverse.

Troubleshooting

Please verify if any event occurs as below when the E-drive doesn't work.

Symptom	Cause	Trouble shooting
No reaction when battery switch is on.	OBDII fitting is bad connected. Fitting is bad connected when taking cabling method 2.	Please check each fitting is connected well.
Engine check light is on	Unplug the fitting of OBDII before battery switch shut off completely.	Please turn engine off, wait for 30 seconds and re-start engine up.
	No initial setup after installation	Re-run the initial setup to reset the throttle opening percentage.
Err shown during initial setup	Wrong initial setup	Re-run the initial setup to reset the throttle opening percentage.
"Err" shown and the "Nor" mode remained when pressing "Mode"	No initial setup after installation	Re-run the initial setup again.

Please return all the accessory with body and harness for repair.

Notes:
Reset engine check light
IF the engine check light is on because of incorrect installation and instruction, please try the instruction as below:
1.Please turn off engine and wait for few minutes then start engine up, the light will be off.
2.If first solution is failed, please release the negative pole of battery and wait for 10 minutes then connect the pole.
3.If both two methods are failed, please use the OBDII scanner (reader) to diagnosis.